

**Basker-5**

Date : 20 Mar 2006

Geology Report Number : 11

( associated DDR # 19 )

**Well Details**

Depth MDRT:	3,191.0m	Rig:	OCEAN PATRIOT	Date:	20 Mar 2006
Depth TVDBRT:	2,964.0m	RTE amsl:	21.5m	Report Start:	00:00
Depth TVDSS:	2,942.5m	GLE amsl:	153.6m	Report End:	24:00
Progress:	94.0m	Last Csg Size:	13.375in	Days On Location:	15.35
Hole Size:	12.250in	Last Csg Shoe:	989.0m	Days since Spud:	22.60
Hole Size Carbide:		F.I.T. / L.O.T.:	15.10ppg /		

**Operations Summary**

24hr Summary:	<p>Drilled ahead through Latrobe Group interbedded Sandstone, Siltstone and minor Coals from 3097.0 mMDRT to 3191.0 mMDRT. Commenced pulling out of hole from 3191.0 mMDRT for bit change due to poor ROP.</p> <p>3097.0 - 3135.0 mMDRT Interbedded Sandstone and Siltstone and Coal. ROP = 5.4 - 52 m/hr, Average = 10 m/hr, Background Gas = 0.9 %</p> <p>3135.0 - 3191.0 mMDRT Interbedded Sandstone and Siltstone and minor Coal. ROP = 3.7 - 79.3 m/hr, Average = 9.8 m/hr, Background Gas = 1.0 %</p>
Forward Plan:	POOH for bit trip. Pick up new PDC bit and RIH. Drill ahead to TD.

**WBM Data**

Mud Type: KCL/PHPA/Glycol	Flowline Temp:	Cl:	4200mg/l	Low Gravity Solids:	Viscosity	67sec/qt
Sample From: Active pit	MWD Circ Temp:	Hard/Ca:	300mg/l	High Gravity Solids:	PV	20cp
Time: 20:00	Glycol CP Temp:	MBT:	5	Solids (corrected):	YP	45lb/100ft <sup>2</sup>
Weight: 9.60ppg	Glycol: 3.0%vol	PM:	0	H2O: 93%	Gels 10s	11
ECD TD:	Nitrates:	PF:	0.01	Oil: 0%	Gels 10m	18
ECD Shoe:	Sulphites:	MF:	0.65	Sand: 1.5	Fann 003	9
ECD Cuttings:	API FL: 4.6cc/30min	pH:	8.5	Barite:	Fann 006	12
KCl Equiv: 8%	API Cake: 1/32nd"	PHPA Excess:			Fann 100	42
					Fann 200	55
					Fann 300	65
					Fann 600	85

**Formation Tops**

Formation	Prognosed		Actual		Diff. + / - TVD	Thickness MD	Pick Criteria
	MDRT	TVDSS	MDRT	TVDSS			
Base T-F Channel			2,292.00m	2,154.70m	2,154.70	500.00m	LWD logs
K2 Sst. Marker			2,792.00m	2,591.40m	2,591.40	277.50m	LWD logs
Ma2 Sandstone			3,069.50m	2,832.60m	2,832.60	0.00m	LWD and ROP
Seafloor	177.00m	155.50m	175.10m	153.60m	-1.90m	1,659.90m	
Lakes Entrance	1,884.30m	1,779.00m	1,835.00m	1,757.30m	-21.70m	378.00m	LWD & cuttings
Latrobe Group	2,238.80m	2,086.00m	2,213.00m	2,085.00m	-1.00m	79.00m	LWD & cuttings
Reservoir Zone 0	3,267.80m	2,973.00m					
Reservoir Zone 1.2	3,347.80m	3,042.00m					
Reservoir Zone 2	3,357.10m	3,050.00m					
Reservoir Zone 4	3,413.80m	3,099.00m					
Reservoir Zone 5	3,491.50m	3,166.00m					
Reservoir Zone 6.2	3,535.50m	3,204.00m					
Reservoir Zone 7	3,573.80m	3,237.00m					
Volcanics Unit 1	3,584.20m	3,246.00m					
Reservoir Zone 8	3,617.80m	3,275.00m					
TD	3,689.60m	3,337.00m					



**Oil Shows**

From	To	Formation	Lithology	White Light			UV Light			Rating
				Stain	Cut	Residue	Fluor.	Cut Fluor.	Residue	
2995.00m	3120.00m			nil	nil	nil	yellow / green	nil	nil	poor
3140.00m	3160.00m			nil	nil	nil	dull grn/yellow	nil	nil	very poor

**Gas**

Depth Range	Gas Type	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)	C1/C2 (ppm)	C1/C3 (ppm)	F1* (ppm)	F2* (ppm)	F3* (ppm)
3097.00 - 3135.00	Background	0.90	5550	690	420	60	40	120	8.04	13.21	46.25	100	925
Comment:													
3112.50 - 3112.50	Peak	4.10	31469	3289	1688	236	435	244	9.57	18.64	128.97	671	13,686.75
Comment:													
3122.00 - 3122.00	Peak		11876	1400	855	156	296	232	8.48	13.89	51.19	452	4,393.36
Comment:													
3127.50 - 3127.50	Peak		34961	3629	1826	284	552	351	9.63	19.15	99.6	836	12,992.54
Comment:													
3134.50 - 3134.50	Peak		36802	4018	2043	334	600	375	9.16	18.01	98.14	934	15,095.93
Comment:													
3135.00 - 3190.00	Background	1.04	5574	712	412	58	136	62	7.83	13.53	89.9	194	3,517.03
Comment:													
3144.50 - 3144.50	Peak		17504	2080	1169	190	391	302	8.42	14.97	57.96	581	6,250.56
Comment:													
3181.50 - 3181.50	Peak	7.10	50905	4629	2088	426	572	152	11	24.38	334.9	998	44,102.41
Comment:													
3184.00 - 3184.00	Peak	5.68	43726	4176	1839	367	492	136	10.47	23.78	321.51	859	37,991.8
Comment:													

F1\*: C1 / C5      F2\*: iC4 + nC4      F3\*: (C2 + C3) / (C5 / (iC4 + nC4))

**Survey**

MDRT (m)	Incl. (deg)	Corr. Az (deg)	TVDBRT (m)	'V' Sect (deg)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
3091.06	25.9	130.1	2873.50	965.4	0.6	-605.1	752.2	MWD
3119.85	25.2	129.7	2899.48	977.8	0.7	-613.1	761.8	MWD
3148.99	25.2	131.9	2925.83	990.2	1.0	-621.2	771.2	MWD
3177.36	24.7	131.9	2951.56	1002.2	0.6	-629.2	780.1	MWD

**06:00 Hrs Update**

Time:	06:00 Hrs on 21 Mar 2006
Depth:	3191/2964
Progress Since Midnight:	0
Drilling Status:	Running in hole @2550m MDRT.
Formation:	Latrobe Group
Lithology:	Interbedded Sandstone, Siltstone and minor Coals.
ROP:	No drilling.
Gas:	No drilling.

**Wellsite Geologist(s)**

(Days) - M.Woodmansee      (Nights) - R.Blackmore



Lithology Report					Description
Depth Interval		Main Lithology	Lithology %	Qualifier	
Depth (mRT)	Depth Range				
2885.0	2890.0	Clyst	30		Claystone, med dk gy, v dark gy, Firm, blocky to splintery, 5% calcerous clay, 90% siliceous clay.
2895.0	2900.0	Sst	60		Sandstone, clr, transl, occ wh, Loose, Sub-angular to Sub-rounded, Poor sorted , Elongated to Slightly Spherical, 20% fine grained, 50% medium grained, 20% coarse grained, 10% very coarse grained, 0.1% Pyrite.
2900.0	2905.0	C	1		Coal, blk, dull blk, Firm, blocky, 5% siliceous silt, 0.3% Pyrite.
2900.0	2905.0	Sltst	89		Siltstone, lt gy, lt-med brnish/gy, olv gy, Very soft to Soft, amorphous to sub-blocky, 5% calcerous clay, 30% siliceous clay, 63% siliceous silt, 2% siliceous sand, 0.1% Pyrite, 0.2% Coal, 0.1% Mica.
3100.0	3105.0	Sltst	5		Siltstone, lt-med brnish/gy, brnish blk., Very soft to Friable, amorphous to sub-blocky, 15% siliceous clay, 80% siliceous silt, 5% siliceous sand, 0.1% Pyrite, 0.2% Coal.
3105.0	3110.0	Sst	69		Sandstone, clr, transl, v lt gy, wh, Loose to Friable, Angular to Sub-rounded, Poor sorted , Elongated to Slightly Spherical, 5% siliceous clay, 95% siliceous sand, 5% very fine grained, 5% fine grained, 30% medium grained, 55% coarse grained, 5% very coarse grained, 0.1% Silica cement, 18% porosity, Hydrocarbon shows.
3105.0	3110.0	C	1		Coal, vit to dull blk, Firm, conchoidal to blocky, 5% siliceous clay, 0.1% Pyrite.
3135.0	3140.0	C	1		Coal, vit to dull blk, Firm, conchoidal to blocky, 5% siliceous clay, 0.1% Pyrite.
3135.0	3140.0	Sst	60	arg	Sandstone, clr, transl, wh, Loose to Friable, sub-blocky, Sub-angular to Rounded, Poor sorted , Slightly Elongated to Spherical, 30% siliceous clay, 70% siliceous sand, 10% very fine grained, 10% fine grained, 30% medium grained, 40% coarse grained, 20% very coarse grained, 0.1% Calcite cement, 0.1% Coal, 0.1% Lithic Fragments, 15% porosity, Hydrocarbon shows.
3145.0	3150.0	Sst	70	arg	Sandstone, clr, transl, wh, Loose to Friable, sub-blocky, Sub-angular to Rounded, Poor sorted , Slightly Elongated to Spherical, 40% siliceous clay, 60% siliceous sand, 10% fine grained, 30% medium grained, 40% coarse grained, 20% very coarse grained, 0.1% Calcite cement, 0.1% Coal, 0.1% Lithic Fragments, 10% porosity, Hydrocarbon shows.
3150.0	3155.0	Sltst	30		Siltstone, lt-med brnish/gy, brnish blk., Very soft to Friable, amorphous to sub-blocky, 15% siliceous clay, 80% siliceous silt, 5% siliceous sand, 0.2% Coal.